|  |
| --- |
|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Science and Mathematics** |
| **GENERAL INFORMATION** |
| Study program  | **Computer Science** |
| Study Module (if applicable) | Information Management |
| Course title | Multimedia Information Systems |
| Level of study | [ ] Bachelor [x]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | Second |
| Number of ECTS allocated | 8 |
| Name of lecturer/lecturers | Milan B. Tasić |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [x] Laboratory work [x]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *This is an introductory course on multimedia information systems. The main goal is to provide students with basic analytical skills to conduct research, to pursue further study, or to perform advanced engineering work on multimedia related topics.* *You will learn how to design and develop multimedia information systems that account for the principles of human sensation, perception, cognition, interaction and learning. The current course focuses on developing systems in a Web environment, but the principles should apply to every information system that interacts with people.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **The basic topics cover: Introduction to multimedia systems, Images (and color), Audio (and signals), Analog and digital video. Also cover Media features and media information retrieval. Media indexing, Lossless and lossy compression schemes and different image standards: JPEG image standard, MPEG video/audio standard, MPEG7 digital media standard. Media networking and QoS are also will be consider. Projects in this course will address the implementation-oriented issues for multimedia information management systems. The course will also include student presentations of their projects.** |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [ ]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[ ] Serbian with English mentoring [ ] Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **5** | **Written examination** | **20** |
| **Practical teaching** | **15** | **Oral examination** | **30** |
| **Teaching colloquia** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |